

Anna SchnÄ¼rer

List of Publications by Year in descending order

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103
papers

6,098
citations

66234

42
h-index

74018

75
g-index

111
all docs

111
docs citations

111
times ranked

4928
citing authors

#	ARTICLE	IF	CITATIONS
1	Identifying targets for increased biogas production through chemical and organic matter characterization of digestate from full-scale biogas plants: what remains and why?. , 2022, 15, 16.		10
2	Miniphocaeibacter halophilus sp. nov., an ammonium-tolerant acetate-producing bacterium isolated from a biogas system. International Journal of Systematic and Evolutionary Microbiology, 2022, 72, .	0.8	6
3	Uncovering antimicrobial resistance in three agricultural biogas plants using plant-based substrates. Science of the Total Environment, 2022, 829, 154556.	3.9	4
4	A Study in Blue: Secondary Copper-Rich Minerals and Their Associated Bacterial Diversity in Icelandic Lava Tubes. Earth and Space Science, 2022, 9, .	1.1	2
5	Serial anaerobic digestion improves protein degradation and biogas production from mixed food waste. Biomass and Bioenergy, 2022, 161, 106478.	2.9	42
6	AcetoBase Version 2: a database update and re-analysis of formyltetrahydrofolate synthetase amplicon sequencing data from anaerobic digesters. Database: the Journal of Biological Databases and Curation, 2022, 2022, .	1.4	3
7	Microbial community development during syngas methanation in a trickle bed reactor with various nutrient sources. Applied Microbiology and Biotechnology, 2022, 106, 5317-5333.	1.7	7
8	Enrichment and description of novel bacteria performing syntrophic propionate oxidation at high ammonia level. Environmental Microbiology, 2021, 23, 1620-1637.	1.8	21
9	Effluent solids recirculation to municipal sludge digesters enhances long-chain fatty acids degradation capacity. Biotechnology for Biofuels, 2021, 14, 56.	6.2	10
10	Profiling temporal dynamics of acetogenic communities in anaerobic digesters using next-generation sequencing and T-RFLP. Scientific Reports, 2021, 11, 13298.	1.6	12
11	Perspectives on Potential Applications of Nanometal Derivatives in Gaseous Bioenergy Pathways: Mechanisms, Life Cycle, and Toxicity. ACS Sustainable Chemistry and Engineering, 2021, 9, 9563-9589.	3.2	26
12	Microbiological Surveillance of Biogas Plants: Targeting Acetogenic Community. Frontiers in Microbiology, 2021, 12, 700256.	1.5	8
13	Anaerobic Digestion of Animal Manure and Influence of Organic Loading Rate and Temperature on Process Performance, Microbiology, and Methane Emission From Digestates. Frontiers in Energy Research, 2021, 9, .	1.2	17
14	Inoculum Source Determines Acetate and Lactate Production during Anaerobic Digestion of Sewage Sludge and Food Waste. Bioengineering, 2020, 7, 3.	1.6	28
15	Biomass Recalcitrance in Willow Under Two Biological Conversion Paradigms: Enzymatic Hydrolysis and Anaerobic Digestion. Bioenergy Research, 2020, 13, 260-270.	2.2	10
16	High-Throughput Sequencing and Unsupervised Analysis of Formyltetrahydrofolate Synthetase (FTHFS) Gene Amplicons to Estimate Acetogenic Community Structure. Frontiers in Microbiology, 2020, 11, 2066.	1.5	10
17	Isolation of antibiotic-resistant bacteria in biogas digestate and their susceptibility to antibiotics. Environmental Pollution, 2020, 266, 115265.	3.7	14
18	Diversity and Abundance of Microbial Communities in UASB Reactors during Methane Production from Hydrolyzed Wheat Straw and Lucerne. Microorganisms, 2020, 8, 1394.	1.6	14

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19	Co-Digestion of Salix and Manure for Biogas: Importance of Clone Choice, Coppicing Frequency and Reactor Setup. <i>Energies</i> , 2020, 13, 3804.	1.6	1
20	Acetate and Lactate Production During Two-Stage Anaerobic Digestion of Food Waste Driven by <i>Lactobacillus</i> and <i>Aeriscardovia</i> . <i>Frontiers in Energy Research</i> , 2020, 8, .	1.2	23
21	Effect of Cobalt, Nickel, and Selenium/Tungsten Deficiency on Mesophilic Anaerobic Digestion of Chemically Defined Soluble Organic Compounds. <i>Microorganisms</i> , 2020, 8, 598.	1.6	21
22	Volatile fatty acids production via mixed culture fermentation: Revealing the link between pH, inoculum type and bacterial composition. <i>Bioresource Technology</i> , 2019, 292, 121889.	4.8	140
23	Effects of thermal hydrolytic pre-treatment on biogas process efficiency and microbial community structure in industrial- and laboratory-scale digesters. <i>Waste Management</i> , 2019, 95, 150-160.	3.7	33
24	Growth Characteristics and Thermodynamics of Syntrophic Acetate Oxidizers. <i>Environmental Science & Technology</i> , 2019, 53, 5512-5520.	4.6	56
25	Sulfide level in municipal sludge digesters affects microbial community response to long-chain fatty acid loads. <i>Biotechnology for Biofuels</i> , 2019, 12, 259.	6.2	30
26	The potential for polyphosphate metabolism in Archaea and anaerobic polyphosphate formation in <i>Methanosarcina mazei</i> . <i>Scientific Reports</i> , 2019, 9, 17101.	1.6	21
27	AcetoBase: a functional gene repository and database for formyltetrahydrofolate synthetase sequences. <i>Database: the Journal of Biological Databases and Curation</i> , 2019, 2019, .	1.4	29
28	Process performance and population dynamics of ammonium tolerant microorganisms during co-digestion of fish waste and manure. <i>Renewable Energy</i> , 2018, 125, 529-536.	4.3	17
29	Detection of novel syntrophic acetate-oxidizing bacteria from biogas processes by continuous acetate enrichment approaches. <i>Microbial Biotechnology</i> , 2018, 11, 680-693.	2.0	63
30	Forage types and origin of manure in codigestion affect methane yield and microbial community structure. <i>Grass and Forage Science</i> , 2018, 73, 740-757.	1.2	15
31	QTL Mapping of Wood FT-IR Chemotypes Shows Promise for Improving Biofuel Potential in Short Rotation Coppice Willow (<i>Salix</i> spp.). <i>Bioenergy Research</i> , 2018, 11, 351-363.	2.2	15
32	Biogas digestates based on lignin-rich feedstock " potential as fertilizer and soil amendment. <i>Archives of Agronomy and Soil Science</i> , 2018, 64, 347-359.	1.3	21
33	Effect of Start-Up Strategies and Electrode Materials on Carbon Dioxide Reduction on Biocathodes. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	48
34	Dynamics of a Perturbed Microbial Community during Thermophilic Anaerobic Digestion of Chemically Defined Soluble Organic Compounds. <i>Microorganisms</i> , 2018, 6, 105.	1.6	11
35	Genome-Guided Analysis of <i>Clostridium ultunense</i> and Comparative Genomics Reveal Different Strategies for Acetate Oxidation and Energy Conservation in Syntrophic Acetate-Oxidising Bacteria. <i>Genes</i> , 2018, 9, 225.	1.0	27
36	Microbial community adaptability to altered temperature conditions determines the potential for process optimisation in biogas production. <i>Applied Energy</i> , 2018, 226, 838-848.	5.1	96

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37	Substrate-Induced Response in Biogas Process Performance and Microbial Community Relates Back to Inoculum Source. <i>Microorganisms</i> , 2018, 6, 80.	1.6	21
38	Microbial Community Structure in a Serpentine-Hosted Abiotic Gas Seepage at the Chimaera Ophiolite, Turkey. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	1.4	37
39	Production efficiency of Swedish farm-scale biogas plants. <i>Biomass and Bioenergy</i> , 2017, 97, 27-37.	2.9	49
40	Comparative characterization of digestate versus pig slurry and cow manure – Chemical composition and effects on soil microbial activity. <i>Waste Management</i> , 2017, 61, 529-538.	3.7	171
41	Importance of inoculum source and initial community structure for biogas production from agricultural substrates. <i>Bioresource Technology</i> , 2017, 245, 768-777.	4.8	92
42	Microbial Community Ability to Adapt to Altered Temperature Conditions Influences Operating Stability in Anaerobic Digestion. <i>Energy Procedia</i> , 2017, 105, 895-900.	1.8	13
43	Methane Production in Dairy Cows Correlates with Rumen Methanogenic and Bacterial Community Structure. <i>Frontiers in Microbiology</i> , 2017, 8, 226.	1.5	218
44	Complete Genome Sequence of the Methanogen <i>Methanoculleus bourgensis</i> BA1 Isolated from a Biogas Reactor. <i>Genome Announcements</i> , 2016, 4, .	0.8	11
45	Anaerobic Fungi: A Potential Source of Biological H ₂ in the Oceanic Crust. <i>Frontiers in Microbiology</i> , 2016, 7, 674.	1.5	52
46	Genome-Guided Analysis and Whole Transcriptome Profiling of the Mesophilic Syntrophic Acetate Oxidising Bacterium <i>Syntrophaceticus schinkii</i> . <i>PLoS ONE</i> , 2016, 11, e0166520.	1.1	53
47	Ammonia threshold for inhibition of anaerobic digestion of thin stillage and the importance of organic loading rate. <i>Microbial Biotechnology</i> , 2016, 9, 180-194.	2.0	128
48	Draft Genome Sequence of the Cellulolytic Strain <i>Clostridium</i> sp. Bc-iso-3 Isolated from an Industrial-Scale Anaerobic Digester. <i>Genome Announcements</i> , 2016, 4, .	0.8	2
49	Biogas Production: Microbiology and Technology. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2016, 156, 195-234.	0.6	45
50	Biogas production through syntrophic acetate oxidation and deliberate operating strategies for improved digester performance. <i>Applied Energy</i> , 2016, 179, 124-135.	5.1	251
51	The microbial community structure in industrial biogas plants influences the degradation rate of straw and cellulose in batch tests. <i>Biotechnology for Biofuels</i> , 2016, 9, 128.	6.2	125
52	Complete genome sequence of <i>Methanoculleus bourgensis</i> strain MAB1, the syntrophic partner of mesophilic acetate-oxidising bacteria (SAOB). <i>Standards in Genomic Sciences</i> , 2016, 11, 80.	1.5	44
53	Bacterial community composition and fhs profiles of low- and high-ammonia biogas digesters reveal novel syntrophic acetate-oxidising bacteria. <i>Biotechnology for Biofuels</i> , 2016, 9, 48.	6.2	190
54	Two-stage anaerobic digestion for reduced hydrogen sulphide production. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 1055-1062.	1.6	28

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55	Effect of Nickel Levels on Hydrogen Partial Pressure and Methane Production in Methanogens. PLoS ONE, 2016, 11, e0168357.	1.1	21
56	Trace element and temperature effects on microbial communities and links to biogas digester performance at high ammonia levels. Biotechnology for Biofuels, 2015, 8, 154.	6.2	94
57	Working draft genome sequence of the mesophilic acetate oxidizing bacterium Syntrophaceticus schinkii strain Sp3. Standards in Genomic Sciences, 2015, 10, 99.	1.5	19
58	Genome-Guided Analysis of Physiological Capacities of Tepidanaerobacter acetatoxydans Provides Insights into Environmental Adaptations and Syntrophic Acetate Oxidation. PLoS ONE, 2015, 10, e0121237.	1.1	28
59	Characterization of microbial community structure during continuous anaerobic digestion of straw and cow manure. Microbial Biotechnology, 2015, 8, 815-827.	2.0	197
60	Expression of barley SUSIBA2 transcription factor yields high-starch low-methane rice. Nature, 2015, 523, 602-606.	13.7	155
61	Comparison of pasteurization and integrated thermophilic sanitation at a full-scale biogas plant – Heat demand and biogas production. Energy, 2015, 79, 419-427.	4.5	21
62	Comparison of operating strategies for increased biogas production from thin stillage. Journal of Biotechnology, 2014, 175, 22-30.	1.9	34
63	Effects on enteric methane production and bacterial and archaeal communities by the addition of cashew nut shell extract or glycerol – An in vitro evaluation. Journal of Dairy Science, 2014, 97, 5729-5741.	1.4	25
64	Semi-continuous anaerobic co-digestion of cow manure and steam-exploded Salix with recirculation of liquid digestate. Journal of Environmental Management, 2014, 136, 9-15.	3.8	45
65	Syntrophic acetate oxidation in industrial CSTR biogas digesters. Journal of Biotechnology, 2014, 171, 39-44.	1.9	92
66	Biogas Production from Thin Stillage on an Industrial Scale – Experience and Optimisation. Energies, 2013, 6, 5642-5655.	1.6	47
67	Biogas production from wheat straw: community structure of cellulose-degrading bacteria. Energy, Sustainability and Society, 2013, 3, .	1.7	43
68	Biogas production from wheat straw and manure – Impact of pretreatment and process operating parameters. Bioresource Technology, 2013, 149, 232-237.	4.8	100
69	First insights into the syntrophic acetate-oxidizing bacteria – a genetic study. MicrobiologyOpen, 2013, 2, 35-53.	1.2	126
70	The effect of substrate and operational parameters on the abundance of sulphate-reducing bacteria in industrial anaerobic biogas digesters. Bioresource Technology, 2013, 132, 327-332.	4.8	59
71	Crystal ball – 2013. Microbial Biotechnology, 2013, 6, 3-16.	2.0	6
72	Draft Genome Sequence of Clostridium ultunense Strain Esp, a Syntrophic Acetate-Oxidizing Bacterium. Genome Announcements, 2013, 1, e0010713.	0.8	16

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73	First Genome Sequence of a Syntrophic Acetate-Oxidizing Bacterium, <i>Tepidanaerobacter acetatoxydans</i> Strain Re1. <i>Genome Announcements</i> , 2013, 1, .	0.8	18
74	Ion Torrent sequencing and pipeline assembly of the first genome sequence of a mesophilic syntrophic acetate oxidizing bacterium (SAOB). <i>EMBnet Journal</i> , 2013, 19, 60.	0.2	1
75	Bioaugmentation of Syntrophic Acetate-Oxidizing Culture in Biogas Reactors Exposed to Increasing Levels of Ammonia. <i>Applied and Environmental Microbiology</i> , 2012, 78, 7619-7625.	1.4	191
76	Impact of trace element addition on degradation efficiency of volatile fatty acids, oleic acid and phenyl acetate and on microbial populations in a biogas digester. <i>Journal of Bioscience and Bioengineering</i> , 2012, 114, 446-452.	1.1	133
77	Methanogenic Population and CH ₄ Production in Swedish Dairy Cows Fed Different Levels of Forage. <i>Applied and Environmental Microbiology</i> , 2012, 78, 6172-6179.	1.4	94
78	Effects of mechanical pre-treatment on the biogas yield from ley crop silage. <i>Applied Energy</i> , 2012, 97, 498-502.	5.1	52
79	Improved biogas production from whole stillage by co-digestion with cattle manure. <i>Bioresource Technology</i> , 2012, 114, 314-319.	4.8	85
80	Conversion of phenols during anaerobic digestion of organic solid waste – A review of important microorganisms and impact of temperature. <i>Journal of Environmental Management</i> , 2012, 95, S99-S103.	3.8	94
81	Response of Induced Perturbation on Replicating $\hat{1}^2$ -Proteobacterial Ammonia-Oxidizing Populations in Soil. <i>Microbial Ecology</i> , 2012, 63, 701-709.	1.4	4
82	Quantification of syntrophic acetate-oxidizing microbial communities in biogas processes. <i>Environmental Microbiology Reports</i> , 2011, 3, 500-505.	1.0	132
83	Changes in the Acetogenic Population in a Mesophilic Anaerobic Digester in Response to Increasing Ammonia Concentration. <i>Microbes and Environments</i> , 2011, 26, 347-353.	0.7	72
84	<i>Tepidanaerobacter acetatoxydans</i> sp. nov., an anaerobic, syntrophic acetate-oxidizing bacterium isolated from two ammonium-enriched mesophilic methanogenic processes. <i>Systematic and Applied Microbiology</i> , 2011, 34, 260-266.	1.2	170
85	Improved bio-energy yields via sequential ethanol fermentation and biogas digestion of steam exploded oat straw. <i>Bioresource Technology</i> , 2011, 102, 4449-4455.	4.8	112
86	Molecular characterisation of two anaerobic phenol-degrading enrichment cultures. <i>International Biodeterioration and Biodegradation</i> , 2010, 64, 427-433.	1.9	27
87	<i>Syntrophaceticus schinkii</i> gen. nov., sp. nov., an anaerobic, syntrophic acetate-oxidizing bacterium isolated from a mesophilic anaerobic filter. <i>FEMS Microbiology Letters</i> , 2010, 309, no-no.	0.7	220
88	In situ ammonia production as a sanitation agent during anaerobic digestion at mesophilic temperature. <i>Letters in Applied Microbiology</i> , 2008, 46, 325-330.	1.0	38
89	Ammonia, a selective agent for methane production by syntrophic acetate oxidation at mesophilic temperature. <i>Water Science and Technology</i> , 2008, 57, 735-740.	1.2	305
90	Effect of process temperature on bacterial and archaeal communities in two methanogenic bioreactors treating organic household waste. <i>FEMS Microbiology Ecology</i> , 2007, 59, 683-693.	1.3	292

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91	Fractionation and Determination of Ah Receptor (AhR) Agonists in Organic Waste After Anaerobic Biodegradation and in Batch Experiments with PCB and decaBDE (8 pp). Environmental Science and Pollution Research, 2007, 14, 36-43.	2.7	11
92	Enzyme activities in and energetics of acetate metabolism by the mesophilic syntrophically acetate-oxidizing anaerobe Clostridium ultunense. FEMS Microbiology Letters, 2006, 154, 331-336.	0.7	15
93	Fungal survival during anaerobic digestion of organic household waste. Waste Management, 2006, 26, 1205-1211.	3.7	41
94	Ammonia-oxidizing communities in agricultural soil incubated with organic waste residues. Biology and Fertility of Soils, 2006, 42, 315-323.	2.3	31
95	Phenols in anaerobic digestion processes and inhibition of ammonia oxidising bacteria (AOB) in soil. Science of the Total Environment, 2006, 364, 229-238.	3.9	56
96	Effects of temperature on biological degradation of phenols, benzoates and phthalates under methanogenic conditions. International Biodeterioration and Biodegradation, 2005, 55, 153-160.	1.9	75
97	Presence of potential ammonia oxidation (PAO) inhibiting substances in anaerobic digestion residues. Applied Soil Ecology, 2004, 26, 107-112.	2.1	19
98	Fate of Ah-receptor agonists in organic household waste during anaerobic degradation – estimation of levels using EROD induction in organ cultures of chick embryo livers. Science of the Total Environment, 2002, 297, 105-108.	3.9	17
99	Monitoring growth of the methanogenic archaea Methanobacterium formicicum using an electronic nose. Biotechnology Letters, 2001, 23, 241-248.	1.1	5
100	Enzyme activities in and energetics of acetate metabolism by the mesophilic syntrophically acetate-oxidizing anaerobe Clostridium ultunense. FEMS Microbiology Letters, 1997, 154, 331-336.	0.7	60
101	Mesophilic syntrophic acetate oxidation during methane formation by a triculture at high ammonium concentration. Archives of Microbiology, 1994, 162, 70-74.	1.0	107
102	Mesophilic syntrophic acetate oxidation during methane formation by a triculture at high ammonium concentration. Archives of Microbiology, 1994, 162, 70-74.	1.0	6
103	Microbial Responses to Different Operating Practices for Biogas Production Systems. , 0, , .		40